

# For high dynamic loads, wear resistant – iglidur® Z



Standard range from stock

Excellent wear resistance especially with high loads

High thermal resistance

For extreme loads

For high surface speeds

Resistant to edge loads

# iglidur® Z

For high dynamic loads, wear resistant. Extremely high compressive strength coupled with high elasticity enables iglidur<sup>®</sup> Z bearings to attain their prominent features in association with soft shafts, edge loads and impacts. The bearings are at the same time suitable for temperatures up to +250 °C.



Excellent wear resistance especially with high loads

High thermal resistance

For extreme loads



#### When to use it?

- For continuous temperatures up to +250°C long term or +310°C short term
- When high wear resistance is required especially under high radial loads
- For high surface speeds
- For edge loading in connection with high surface pressures



For high surface speeds

Resistant to edge loads

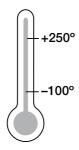


#### When not to use it?

- For low loads and temperatures
  - ► iglidur® P, page 195
- When a cost-effective general purpose bearing is sought
  - ► iglidur® G, page 81
- When electrically conductive bearings are needed
  - ▶ iglidur® F, page 509
  - ▶ iglidur® H, page 353
  - ▶ iglidur® H370, page 375



**Temperature** 



#### Product range

3 types Ø 4–100 mm more dimensions on request

# iglidur® Z | Application Examples



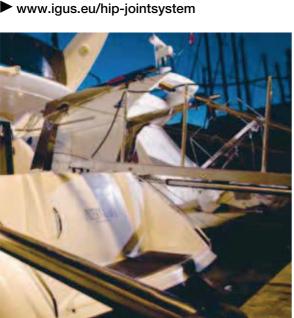
# Typical sectors of industry and application areas

- Construction machinery
- Machine building Textile technology
- Aerospace engineering
- Glass industry etc.

Improve technology and reduce costs – 310 exciting examples for iglidur® plain bearings online

► www.igus.eu/iglidur-applications





www.igus.eu/mooring-system



www.igus.eu/rollercoaster



www.igus.eu/railroad-platform

Material properties table			
General Properties	Unit	iglidur® Z	Testing method
Density	g/cm <sup>3</sup>	1.40	
Colour		brown	
Max. moisture absorption at +23 °C/50 % r.h.	% weight	0.3	DIN 53495
Max. water absorption	% weight	1.1	
Coefficient of sliding friction, dynamic against steel	μ	0.06-0.14	
pv value, max. (dry)	MPa · m/s	0.84	
Mechanical properties			
Modulus of elasticity	MPa	2,400	DIN 53457
Tensile strength at +20°C	MPa	95	DIN 53452
Compressive strength	MPa	65	
Max. recommended surface pressure (+20 °C)	MPa	150	
Shore D hardness		81	DIN 53505
Physical and thermal properties			
Max. long term application temperature	°C	+250	
Max. short term application temperature	°C	+310	
Min. application temperature	°C	-100	
Thermal conductivity	W/m · K	0.62	ASTM C 177
Coefficient of thermal expansion (at +23 °C)	$K^{-1} \cdot 10^{-5}$	4	DIN 53752
Electrical properties			
Specific volume resistance	$\Omega$ cm	> 1011	DIN IEC 93
Surface resistance	Ω	> 1011	DIN 53482

Table 01: Material properties table

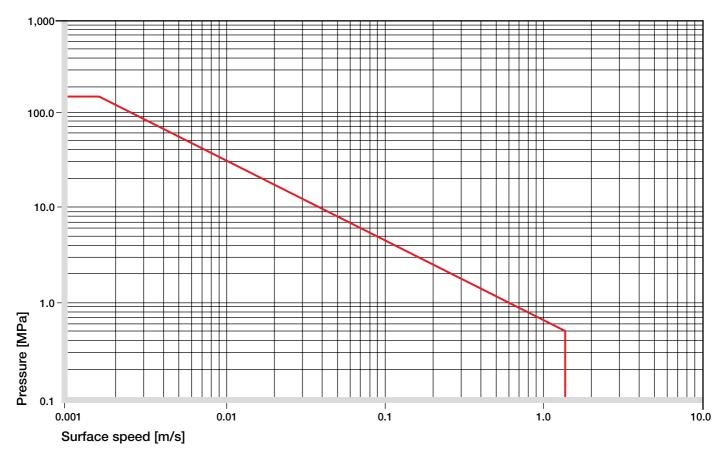


Diagram 01: Permissible pv values for iglidur® Z with a wall thickness of 1 mm dry running against a steel shaft at +20 °C, mounted in a steel housing

In addition to iglidur® X, iglidur® Z is among the best selling iglidur® high-temperature materials. Specifically worth noting is the outstanding wear behavior under extreme conditions (high loads and temperatures).

#### **Mechanical Properties**

With increasing temperatures, the compressive strength of iglidur® Z plain bearings decreases. The Diagram 02 shows this inverse relationship. However, at the longterm maximum temperature of +250 °C the permissible surface pressure is almost 45 MPa. The recommended maximum surface pressure is a mechanical material parameter. No conclusions regarding the tribological properties can be drawn from this.

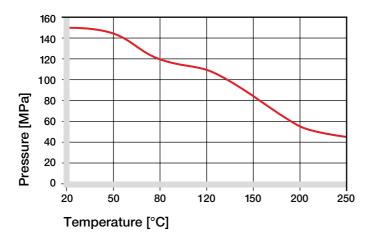


Diagram 02: Recommended maximum surface pressure as a function of temperature (150 MPa at +20 °C)

iglidur® Z is suited for both average and high speeds due to its high thermal resistance. Diagram 03 shows the elastic deformation of iglidur® Z at radial loads. At the recommended maximum surface pressure of 150 MPa the deformation is ca. 5.5%.

#### ➤ Surface Pressure, page 63

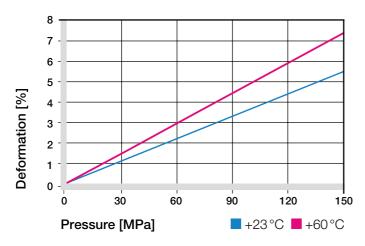


Diagram 03: Deformation under pressure and temperature

#### Permissible Surface Speeds

iglidur® Z is a high temperature bearing material, which is suited for applications with very high specific loads.

The maximum values shown in table 02 can only be achieved at low pressures. At the given speeds, friction can cause a temperature increase to maximum permissible levels. In practice, though, this temperature level is rarely reached, due to varying application conditions.

#### ➤ Surface Speed, page 65

m/s	Rotating	Oscillating	Linear
Continuous	1.5	1.1	5
Short term	3.5	2.5	6

Table 02: Maximum running speed

#### **Temperatures**

The maximum permissible short term temperature is +310°C. This is among the highest thermal resistance of any iglidur® material. Abb. 02 shows this relationship.

The ambient temperatures in the bearing system also have an effect on the bearing wear. With increasing temperatures, the wear rate increases.

At high temperatures iglidur<sup>®</sup> Z is also the most wear resistant material when running dry.

#### ► Application Temperatures, page 66

iglidur® Z	Application temperature
Minimum	−100°C
Max. long term	+250°C
Max. short term	+310°C
Add. securing is required from	m +145°C

Table 03: Temperature limits

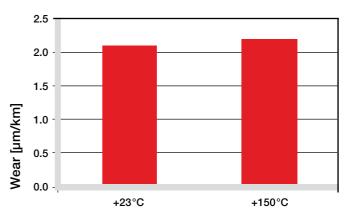


Diagram 04: Wear as a function of temperature, rotation with p = 0.75 MPa, v = 0.5 m/s (CF53 hardened and ground steel)

#### Friction and Wear

The coefficient of friction declines just as the wear resistance with increasing load.

Friction and wear also depend to a high degree on the reverse partner. Very smooth shafts increase the coefficient of both friction and wear. iglidur® Z proves to be relatively insensitive with regard to the shaft surface. The best suited is a smoothed surface with an average surface finish coefficient of friction 0.4 to 0.7 µm, if the friction should be minimized.

- Coefficients of Friction and Surfaces, page 68
- ➤ Wear Resistance, page 69

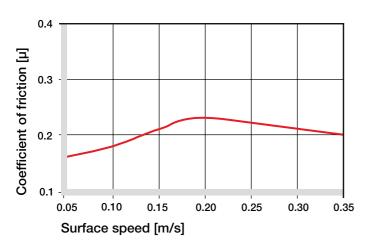


Diagram 05: Coefficient of friction as a function of the running speed, p = 0.75 MPa

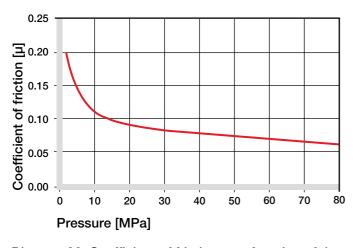


Diagram 06: Coefficient of friction as a function of the pressure, v = 0.01 m/s

#### **Shaft Materials**

Diagrams 08-11 show wear rates in the lower load range, which are very similar to those of other wear-resistant iglidur® materials. However, in the upper load range iglidur® Z outperforms all other materials in wear resistance. Provided a Cf53 hardened and ground steel shaft is used, the wear is at 45 MPa still only 15 µm/km.

At low loads iglidur® Z plain bearings wear less in oscillating operation than in rotation. 304 Stainless Steel and hard chromed shaft are of interest here.

#### Shaft Materials, page 71

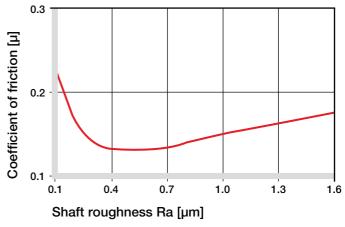


Diagram 07: Coefficient of friction as function of the shaft surface (Cf53 hardened and ground steel)

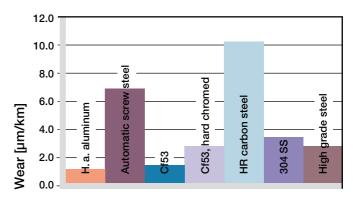


Diagram 08: Wear, rotating with different shaft materials, pressure p = 1 MPa, v = 0.3 m/s

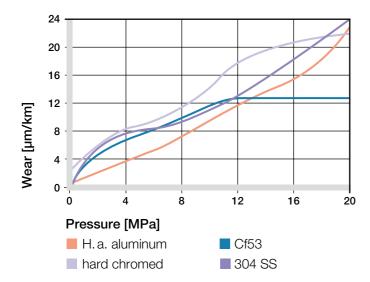


Diagram 09: Wear with different shaft materials in rotational operation, as a function of the pressure

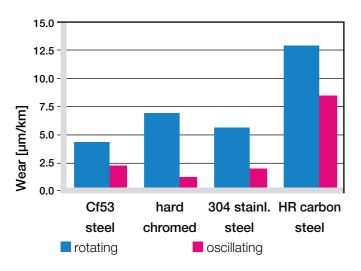


Diagram 10: Wear for rotating and oscillating applications with different shaft materials,  $p=2\ MPa$ 

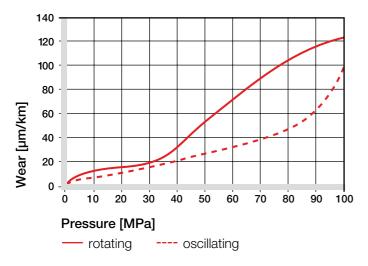


Diagram 11: Wear for oscillating and rotating applications with shaft material Cf53 hardened and ground steel, as a function of the pressure

iglidur® Z	Dry	Greases	Oil	Water
C.o.f. µ	0.06-0.14	0.09	0.04	0.04

Table 04: Coefficient of friction against steel (Ra = 1  $\mu$ m, 50 HRC)

## **Additional Properties**

#### **Chemical Resistance**

iglidur<sup>®</sup> Z plain bearings have a very good resistance to chemicals. They have an excellent resistance against organic solvents, fuels, oils and greases. The material is only partially resistant against weak acids.

#### ► Chemical Table, page 1258

Medium	Resistance
Alcohol	0
Hydrocarbons	+
Greases, oils without additives	+
Fuels	+
Diluted acids	+
Strong acids	-
Diluted alkalines	+
Strong alkalines	_

+ resistant 0 conditionally resistant – not resistant All data given at room temperature [+20 °C]
Table 05: Chemical resistance

#### **Radiation Resistance**

Plain bearings made from iglidur<sup>®</sup> Z are resistant to radiation up to an intensity of  $1 \cdot 10^5$  Gy.

#### **UV** Resistance

UV radiation causes approximately 50% decline of the tribological properties (wear resistance) of plain bearings made from iglidur® Z.

#### Vacuum

For use in a vacuum environment, moisture content is released as vapour. Therefore, only dehumidified bearings made of iglidur® Z are suitable for a vacuum environment.

#### **Electrical Properties**

iglidur® Z plain bearings are electrically insulating.

Volume resistance	> 10 <sup>11</sup> Ωcm
Surface resistance	$>10^{11}~\Omega$

#### **Moisture Absorption**

The moisture absorption of iglidur® Z plain bearings is approximately 0.3% in standard atmosphere. The saturation limit in water is 1.1%.

Maximum moisture absorption					
At +23°C/50% r.h.	0.3% weight				
Max. water absorption	1.1 % weight				

Table 06: Moisture absorption

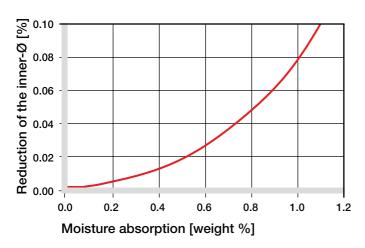


Diagram 12: Effect of moisture absorption on plain bearings

#### **Installation Tolerances**

iglidur® Z plain bearings are standard bearings for shafts with h-tolerance (recommended minimum h9). The bearings are designed for pressfit into a housing machined to a H7 tolerance. After being assembled into a nominal size housing, in standard cases the inner diameter automatically adjusts to the F10 tolerances. For particular dimensions the tolerance differs depending on the wall thickness (please see product range table).

#### Testing Methods, page 75

Dia	ameter		Shaft h9	iglidur® <b>Z</b>	Housing H7
d1	[mm]		[mm]	F10 [mm]	[mm]
	up to	3	0-0.025	+0.006 +0.046	0 +0.010
>	3 to	6	0-0.030	+0.010 +0.058	0 +0.012
>	6 to	10	0-0.036	+0.013 +0.071	0 +0.015
>	10 to	18	0-0.043	+0.016 +0.086	0 +0.018
>	18 to	30	0-0.052	+0.020 +0.104	0 +0.021
>	30 to	50	0-0.062	+0.025 +0.125	0 +0.025
>	50 to	80	0-0.074	+0.030 +0.150	0 +0.030

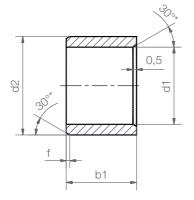
Table 07: Important tolerances for plain bearings according to ISO 3547-1 after pressfit

**b1** h13

# iglidur® Z | Product Range

## Sleeve bearing



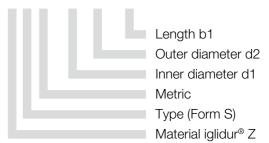




Part number

# Order key

# ZSM-0405-04



d1-Tolerance\*

d1

Dimensions according to ISO 3547-1 and special dimensions

\* thickness < 1 mm, chamfer = 20°

Chamfer in relation to the d1

d1 [mm]:  $\emptyset$  1–6 |  $\emptyset$  6–12 |  $\emptyset$  12–30 |  $\emptyset$  > 30 f [mm]: 0.3 | 0.5 | 0.8 | 1.2

## Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	<b>b1</b> h13
ZSM-0405-04	4.0	+0.010 +0.058	5.5	4.0
ZSM-0507-05	5.0	+0.010 +0.058	7.0	5.0
ZSM-0507-09	5.0	+0.010 +0.058	7.0	9.0
ZSM-0608-06	6.0	+0.010 +0.058	8.0	6.0
ZSM-0608-08	6.0	+0.010 +0.058	8.0	8.0
ZSM-0608-12	6.0	+0.010 +0.058	8.0	12.0
ZSM-0610-06	6.0	+0.010 +0.058	10.0	6.0
ZSM-0810-06	8.0	+0.013 +0.071	10.0	6.0
ZSM-0810-08	8.0	+0.013 +0.071	10.0	8.0
ZSM-0810-10	8.0	+0.013 +0.071	10.0	10.0
ZSM-1012-08	10.0	+0.013 +0.071	12.0	8.0
ZSM-1012-10	10.0	+0.013 +0.071	12.0	10.0
ZSM-1012-12	10.0	+0.013 +0.071	12.0	12.0
ZSM-1214-08	12.0	+0.016 +0.086	14.0	8.0
ZSM-1214-15	12.0	+0.016 +0.086	14.0	15.0
ZSM-1416-20	14.0	+0.016 +0.086	16.0	20.0
ZSM-1517-15	15.0	+0.016 +0.086	17.0	15.0
ZSM-1517-20	15.0	+0.016 +0.086	17.0	20.0
ZSM-1517-22	15.0	+0.016 +0.086	17.0	22.0
ZSM-1618-12	16.0	+0.016 +0.086	18.0	12.0
ZSM-1618-15	16.0	+0.016 +0.086	18.0	15.0
ZSM-1820-20	18.0	+0.016 +0.086	20.0	20.0
ZSM-1820-24	18.0	+0.016 +0.086	20.0	24.0
ZSM-2023-10	20.0	+0.020 +0.104	23.0	10.0
ZSM-2023-15	20.0	+0.020 +0.104	23.0	15.0
ZSM-2023-20	20.0	+0.020 +0.104	23.0	20.0
ZSM-2023-30	20.0	+0.020 +0.104	23.0	30.0
ZSM-2023-35	20.0	+0.020 +0.104	23.0	35.0

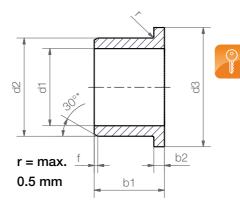
				1110
ZSM-2224-30	22.0	+0.020 +0.104	24.0	30.0
ZSM-2225-20	22.0	+0.020 +0.104	25.0	20.0
ZSM-2528-15	25.0	+0.020 +0.104	28.0	15.0
ZSM-2528-20	25.0	+0.020 +0.104	28.0	20.0
ZSM-2528-30	25.0	+0.020 +0.104	28.0	30.0
ZSM-2528-48	25.0	+0.020 +0.104	28.0	48.0
ZSM-2630-34	26.0	+0.020 +0.104	30.0	34.0
ZSM-2834-29	28.0	+0.020 +0.104	34.0	29.0
ZSM-3034-20	30.0	+0.020 +0.104	34.0	20.0
ZSM-3034-30	30.0	+0.020 +0.104	34.0	30.0
ZSM-3034-40	30.0	+0.020 +0.104	34.0	40.0
ZSM-3539-20	35.0	+0.025 +0.125	39.0	20.0
ZSM-4044-15	40.0	+0.025 +0.125	44.0	15.0
ZSM-4044-40	40.0	+0.025 +0.125	44.0	40.0
ZSM-4044-47	40.0	+0.025 +0.125	44.0	47.0
ZSM-4550-40	45.0	+0.025 +0.125	50.0	40.0
ZSM-5055-50	50.0	+0.025 +0.125	55.0	50.0
ZSM-5055-60	50.0	+0.025 +0.125	55.0	60.0
ZSM-5560-60	55.0	+0.030 +0.150	60.0	60.0
ZSM-6065-60	60.0	+0.030 +0.150	65.0	60.0
ZSM-7075-70	70.0	+0.030 +0.150	75.0	70.0
ZSM-8085-60	80.0	+0.030 +0.150	85.0	60.0
ZSM-8085-80 New!	80.0	+0.030 +0.150	85.0	80.0
ZSM-8590-60 New!	85.0	+0.036 +0.176	90.0	60.0
ZSM-8590-100 New!	85.0	+0.036 +0.176	90.0	100.0
ZSM-95100-60 New!	95.0	+0.036 +0.176	100.0	60.0
ZSM-100105-100	100.0	+0.072 +0.212	105.0	100.0
ZSM-120125-100 New!	120.0	+0.043 +0.203	125.0	100.0

<sup>\*</sup> after pressfit. Testing methods ▶ page 75

# iglidur® Z | Product Range

## Flange bearing





Order key

ZFM-0405-04



Dimensions according to ISO 3547-1 and special dimensions

\* thickness < 1 mm, chamfer = 20°

Chamfer in relation to the d1

d1 [mm]:  $\emptyset$  1-6 |  $\emptyset$  6-12 |  $\emptyset$  12-30 |  $\emptyset$  > 30 f [mm]: 0.3 | 0.5 | 0.8 | 1.2

## Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3 d13	<b>b1</b> h13	b2 -0.14
ZFM-0405-04	4.0	+0.010 +0.058	5.5	9.5	4.0	0.75
ZFM-0507-05	5.0	+0.010 +0.058	7.0	11.0	5.0	1.0
ZFM-0608-08	6.0	+0.010 +0.058	8.0	12.0	8.0	1.0
ZFM-0810-055	8.0	+0.013 +0.071	10.0	15.0	5.5	1.0
ZFM-0810-09	8.0	+0.013 +0.071	10.0	15.0	9.0	1.0
ZFM-1012-05	10.0	+0.013 +0.071	12.0	18.0	5.0	1.0
ZFM-1012-09	10.0	+0.013 +0.071	12.0	18.0	9.0	1.0
ZFM-1012-15	10.0	+0.013 +0.071	12.0	18.0	15.0	1.0
ZFM-101315-05	10.0	+0.013 +0.071	13.0	15.0	5.5	1.5
ZFM-1214-09	12.0	+0.016 +0.086	14.0	20.0	9.0	1.0
ZFM-1214-12	12.0	+0.016 +0.086	14.0	20.0	12.0	1.0
ZFM-1214-20	12.0	+0.016 +0.086	14.0	20.0	20.0	1.0
ZFM-1416-17	14.0	+0.016 +0.086	16.0	22.0	17.0	1.0
ZFM-1517-11	15.0	+0.016 +0.086	17.0	23.0	11.0	1.0
ZFM-1517-15	15.0	+0.016 +0.086	17.0	23.0	15.0	1.0
ZFM-151723-23	15.0	+0.016 +0.086	17.0	23.0	23.0	1.0
ZFM-1618-12	16.0	+0.016 +0.086	18.0	24.0	12.0	1.0
ZFM-1820-04	18.0	+0.016 +0.086	20.0	26.0	4.0	1.0
ZFM-1820-17	18.0	+0.016 +0.086	20.0	26.0	17.0	1.0
ZFM-2022-21	20.0	+0.020 +0.104	22.0	30.0	21.0	1.0
ZFM-2023-11	20.0	+0.020 +0.104	23.0	30.0	11.5	1.5
ZFM-2023-155	20.0	+0.020 +0.104	23.0	30.0	15.5	1.5
ZFM-2023-16	20.0	+0.020 +0.104	23.0	30.0	16.5	1.5
ZFM-2023-21	20.0	+0.020 +0.104	23.0	30.0	21.5	1.5
ZFM-2023-31	20.0	+0.020 +0.104	23.0	30.0	31.5	1.5

<sup>\*</sup> after pressfit. Testing methods ▶ page 75





prices price list online www.igus.eu/eu/z

# iglidur® Z | Product Range



## Flange bearing

## Dimensions [mm]

Part number	d1	d1-Tolerance*	d2	d3 d13	<b>b1</b> h13	b2 -0.14
ZFM-2528-16	25.0	+0.020 +0.104	28.0	35.0	16.5	1.5
ZFM-2528-21	25.0	+0.020 +0.104	28.0	35.0	21.5	1.5
ZFM-2528-31	25.0	+0.020 +0.104	28.0	35.0	31.5	1.5
ZFM-3034-13	30.0	+0.020 +0.104	34.0	42.0	13.0	2.0
ZFM-3034-20	30.0	+0.020 +0.104	34.0	42.0	20.0	2.0
ZFM-3034-26	30.0	+0.020 +0.104	34.0	42.0	26.0	2.0
ZFM-3034-37	30.0	+0.020 +0.104	34.0	42.0	37.0	2.0
ZFM-3539-26	35.0	+0.025 +0.125	39.0	47.0	26.0	2.0
ZFM-4044-20	40.0	+0.025 +0.125	44.0	52.0	20.0	2.0
ZFM-4044-40	40.0	+0.025 +0.125	44.0	52.0	40.0	2.0
ZFM-4550-50	45.0	+0.025 +0.125	50.0	58.0	50.0	2.0
ZFM-5055-20	50.0	+0.025 +0.125	55.0	63.0	20.0	2.0
ZFM-5055-50	50.0	+0.025 +0.125	55.0	63.0	50.0	2.0
ZFM-6065-50	60.0	+0.030 +0.150	65.0	73.0	50.0	2.5
ZFM-7580-50	75.0	+0.030 +0.150	80.0	88.0	50.0	2.5
ZFM-758094-65 New!	75.0	+0.030 +0.150	80.0	94.0	65.0	3.0

<sup>\*</sup> after pressfit. Testing methods ▶ page 75



## Don't find your size?

Do you need another length, other dimensions or tolerances? You need a particular design or alternative for your application? Please call us. igus® listens to your needs and provides you a solution in a very short time.



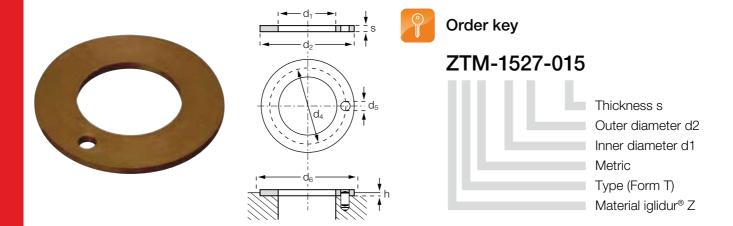
#### Even more dimensions from stock

More than 300 dimensions are now available. Search online for your required bearing.

► www.igus.eu/iglidur-specialbearings

# iglidur® Z | Product Range

#### Thrust washer



Dimensions according to ISO 3547-1 and special dimensions

## Dimensions [mm]

Part number	d1	d2	s	d4	d5	h	d6
	+0.25	-0.25	-0.05	-0.12	+0.375	+0.2	+0.12
				+0.12	+0.125	-0.2	
ZTM-1430-015	14.0	30.0	1.5	25+/-0.20	2+0.10	1.0	30.0
ZTM-1527-015	15.0	27.0	1.5	**	**	1.0	27.0
ZTM-1535-015	15.0	35.0	1.5	**	**	1.0	35.0
ZTM-1623-015	16.0	23.0	1.5	**	**	1.0	23.0
ZTM-2838-015	28.0	38.0	1.5	**	**	1.0	38.0
ZTM-3254-015	32.0	54.0	1.5	43.0	4.0	1.0	54.0
ZTM-6290-020	62.0	90.0	2.0	**	**	1.5	90.0

<sup>\*\*</sup> design without fixing bore



## Even more dimensions from stock

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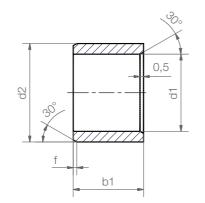




# iglidur® Z | Product Range | Inch

## Sleeve bearings

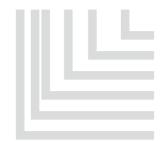






Order key

ZSI-0203-03



Length b1
Outer diameter d2
Inner diameter d1
Inch
Type (Form S)

Material iglidur® Z

Chamfer in relation to the d1

d1 [Inch]: f [Inch]: Ø 0.040–0.236 0.012

Ø 0.236–0.472 0.019 Ø 0.472–1.18 0.031 Ø > 1.18 0.047

## Dimensions [Inch]

Part number	d1	d2	b1	d1*		Housing bore		Shaft size	
				max.	min.	max.	min.	max.	min.
ZSI-0203-03	1/8	3/16	3/16	.1269	.1251	.1878	.1873	.1243	.1236
ZSI-0506-06	5/16	3/8	3/8	.3148	.3125	.3753	.3747	.3115	.3106
ZSI-0607-04	3/8	15/32	1/4	.3768	.3745	.4691	.4684	.3740	.3731
ZSI-0607-06	3/8	15/32	3/8	.3768	.3745	.4691	.4684	.3740	.3731
ZSI-0607-08	3/8	15/32	1/2	.3768	.3745	.4691	.4684	.3740	.3731
ZSI-0708-08	7/16	17/32	1/2	.4399	.4371	.5316	.5309	.4365	.4355
ZSI-0809-12	1/2	19/32	3/4	.5024	.4996	.5941	.5934	.4990	.4980
ZSI-0810-12	1/2	5/8	3/4	.5034	.5006	.6260	.6250	.5000	.4990
ZSI-1011-12	5/8	23/32	3/4	.6274	.6246	.7192	.7184	.6240	.6230
ZSI-1214-12	3/4	7/8	3/4	.7532	.7499	.8755	.8747	.7491	.7479
ZSI-1214-16	3/4	7/8	1	.7532	.7499	.8755	.8747	.7491	.7479
ZSI-1416-16	7/8	1	1	.8782	.8749	1.0005	.9997	.8741	.8729
ZSI-1618-16	1	11/8	1	1.0032	.9999	1.1255	1.1247	.9991	.9979
ZSI-1618-24	1	11/8	11/2	1.0032	.9999	1.1255	1.1247	.9991	.9979
ZSI-1820-24	1 1/8	1 9/32	11/2	1.1279	1.1246	1.2818	1.2808	1.1238	1.1226
ZSI-2022-20	1 1/4	1 13/32	11/4	1.2537	1.2498	1.4068	1.4058	1.2488	1.2472
ZSI-2426-24	1 1/2	1 21/32	11/2	1.5037	1.4998	1.6568	1.6558	1.4988	1.4972
ZSI-2831-32	1 3/4	1 15/16	2	1.7536	1.7497	1.9381	1.9371	1.7487	1.7471
ZSI-3235-16	2	23/16	1	2.0040	1.9993	2.1883	2.1871	1.9981	1.9969
ZSI-3235-32	2	23/16	2	2.0040	1.9993	2.1883	2.1871	1.9981	1.9969
ZSI-3639-32	2 1/4	27/16	2	2.2556	2.2519	2.4377	2.4365	2.2507	2.2489

<sup>\*</sup> after pressfit. Testing methods ▶ page 75

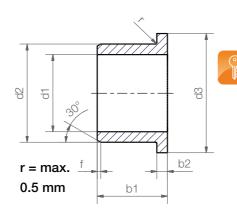




# iglidur® Z | Product Range | Inch

## Flange bearing





Order key

ZFI-0607-08



Chamfer in relation to the d1

d1 [Inch]: Ø 0.040-0.236 f [Inch]: 0.012

Ø 0.236-0.472 0.019 Ø 0.472–1.18 0.031 Ø > 1.18 0.047

## Dimensions [Inch]

Part number	d1	d2	b1	d3	b2	d1*		Housing bore		Shaft size	
						max.	min.	max.	min.	max.	min.
ZFI-0607-08	3/8	15/32	1/2	.687	.046	.3768	.3745	.4691	.4684	.3740	.3731
ZFI-0809-08	1/2	19/32	1/2	.875	.046	.5024	.4996	.5941	.5934	.4990	.4980
ZFI-1012-08	5/8	3/4	3/4	1.000	.046	.6284	.6256	.7510	.7500	.6250	.6240
ZFI-1214-12	3/4	7/8	3/4	1.125	.062	.7532	.7499	.8755	.8747	.7491	.7479
ZFI-1214-16	3/4	7/8	1	1.125	.062	.7532	.7499	.8755	.8747	.7491	.7479
ZFI-1416-12	7/8	1	1	1.250	.062	.8782	.8749	1.0005	.9997	.8741	.8729
ZFI-1416-16	7/8	1	1	1.250	.062	.8782	.8749	1.0005	.9997	.8741	.8729
ZFI-1618-08	1	1 1/8	1	1.375	.062	1.0032	.9999	1.1255	1.1247	.9991	.9979
ZFI-1618-16	1	1 1/8	1	1.375	.062	1.0032	.9999	1.1255	1.1247	.9991	.9979
ZFI-1820-12	1 1/8	1 9/32	11/2	1.562	.078	1.1279	1.1246	1.2818	1.2808	1.1238	1.1226
ZFI-1820-24	1 1/8	1 9/32	11/2	1.562	.078	1.1279	1.1246	1.2818	1.2808	1.1238	1.1226
ZFI-2022-20	1 1/4	1 13/32	11/4	1.687	.078	1.2537	1.2498	1.4068	1.4058	1.2488	1.2472
ZFI-2022-24	1 1/4	1 13/32	11/4	1.687	.078	1.2537	1.2498	1.4068	1.4058	1.2488	1.2472
ZFI-2426-24	1 1/2	1 21/32	11/2	2.000	.078	1.5037	1.4998	1.6568	1.6558	1.4988	1.4972
ZFI-2831-32	1 3/4	1 15/16	2	2.375	.093	1.7536	1.7497	1.9381	1.9371	1.7487	1.7471
ZFI-3235-32	2	2 3/16	2	2.625	.093	2.0040	1.9993	2.1883	2.1871	1.9981	1.9969

<sup>\*</sup> after pressfit. Testing methods ▶ page 75



## Don't find your size?

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